

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared for:

SUN: Aquaterra Tech. PO Box 744 West Chester PA 19381

610-431-5733

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 992976. Samples arrived at the laboratory on Friday, June 09, 2006. The PO# for this group is SUNOCO PHILLY REFINER.

| Client Description | Lancaster Labs Number |
|---------------------------------|-----------------------|
| B45-060806 Grab Water Sample | 4790619 |
| B158-060806 Grab Water Sample | 4790620 |
| B48-060806 Grab Water Sample | 4790621 |
| B48D-060806 Grab Water Sample | 4790622 |
| B160-060806 Grab Water Sample | 4790623 |
| B159-060806 Grab Water Sample | 4790624 |
| B151-060806 Grab Water Sample | 4790625 |
| B154-060806 Grab Water Sample | 4790626 |
| B156-060806 Grab Water Sample | 4790627 |
| B155-060806 Grab Water Sample | 4790628 |
| B149-060806 Grab Water Sample | 4790629 |
| B153-060906 Grab Water Sample | 4790630 |
| B152-060906 Grab Water Sample | 4790631 |
| B94-060906 Grab Water Sample | 4790632 |
| WPM8-060906 Grab Water Sample | 4790633 |
| WPM11-060906 Grab Water Sample | 4790634 |
| B163-060906 Grab Water Sample | 4790635 |
| B145-060906 Grab Water Sample | 4790636 |
| WP16-5-060906 Grab Water Sample | 4790637 |
| B157-060906 Grab Water Sample | 4790638 |
| | |

ELECTRONIC SUN: Aquaterra Tech. Attn: Brad Spancake



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Attn: Jason Hanna

Attn: Joseph Catricks

Questions? Contact your Client Services Representative Rebecca J Shettel at (717) 656-2300

Respectfully Submitted,

Michelle J. Smith Group Leader



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Lancaster Laboratories Sample No. WW 4790619

B45-060806 Grab Water Sample

SUN: Philadelphia Refinery AOI-6

Collected:06/08/2006 11:50 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B45--

| | | | | As Received | As Received | | |
|-------|-----------------------------|------------|-------------|---------------|--------------------|-------|---------|
| CAT | | | As Received | Limit of | Method | | Dilutio |
| No. | Analysis Name | CAS Number | Result | Quantitation* | Detection Limit | Units | Factor |
| 06035 | Lead | 7439-92-1 | < 0.0010 | 0.0010 | 0.000047 | mg/l | 1 |
| 07879 | EDB in Wastewater | | | | | | |
| 01087 | Ethylene dibromide | 106-93-4 | < 0.029 | 0.029 | 0.0095 | ug/l | 1 |
| 07805 | PAHs in Water by GC/MS | | | | | | |
| 03947 | Naphthalene | 91-20-3 | < 5. | 5. | 1. | ug/l | 1 |
| 03956 | Fluorene | 86-73-7 | < 5. | 5. | 1. | ug/l | 1 |
| 03963 | Phenanthrene | 85-01-8 | < 5. | 5. | 1. | ug/l | 1 |
| 03967 | Pyrene | 129-00-0 | < 5. | 5. | 1. | ug/l | 1 |
| 03971 | Chrysene | 218-01-9 | < 5. | 5. | 1. | ug/l | 1 |
| 02302 | UST-Waters by 8260B | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | < 5. | 5. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | < 5. | 5. | 0.7 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | < 5. | 5. | 0.8 | ug/l | 1 |
| 05420 | Isopropylbenzene | 98-82-8 | < 5. | 5. | 1. | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | < 5. | 5. | 0.8 | ug/l | 1 |

Commonwealth of Pennsylvania Lab Certification No. 36-037 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| CAT | | | Analysis | | | |
|-------|------------------------|--------------|----------|------------------|------------------|--------|
| No. | Analysis Name | Method | Trial# | Date and Time | Analyst | Factor |
| 06035 | Lead | SW-846 6020 | 1 | 06/19/2006 20:32 | David K Beck | 1 |
| 07879 | EDB in Wastewater | SW-846 8011 | 1 | 06/16/2006 13:05 | James H Place | 1 |
| 07805 | PAHs in Water by GC/MS | SW-846 8270C | 1 | 06/16/2006 23:34 | William T Parker | 1 |
| 02302 | UST-Waters by 8260B | SW-846 8260B | 1 | 06/15/2006 00:24 | Kelly E Brickley | 1 |

^{*=}This limit was used in the evaluation of the final result



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4790619 Lancaster Laboratories Sample No. WW

B45-060806 Grab Water Sample

SUN: Philadelphia Refinery AOI-6

Collected:06/08/2006 11:50 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

| B45 | | | | | | |
|-------|----------------------|-----------------------|---|------------------|---------------------|---|
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 06/15/2006 00:24 | Kelly E Brickley | 1 |
| 06050 | ICP/MS SW-846 Water | SW-846 3010A modified | 1 | 06/18/2006 18:33 | James L Mertz | 1 |
| 07786 | EDB Extraction | SW-846 8011 | 1 | 06/13/2006 13:00 | Deborah M Zimmerman | 1 |
| 07807 | BNA Water Extraction | SW-846 3510C | 1 | 06/13/2006 07:30 | Danette S Cavalier | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790620

B158-060806 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/08/2006 12:05 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B158-

| | | | | As Received | As Received | | |
|-------|-----------------------------|------------|-------------|---------------|--------------------|-------|----------|
| CAT | | | As Received | Limit of | Method | | Dilution |
| No. | Analysis Name | CAS Number | Result | Quantitation* | Detection Limit | Units | Factor |
| 06035 | Lead | 7439-92-1 | < 0.0010 | 0.0010 | 0.000047 | mg/l | 1 |
| 07879 | EDB in Wastewater | | | | | | |
| 01087 | Ethylene dibromide | 106-93-4 | < 0.029 | 0.029 | 0.0096 | ug/l | 1 |
| 07805 | PAHs in Water by GC/MS | | | | | | |
| 03947 | Naphthalene | 91-20-3 | < 5. | 5. | 1. | ug/l | 1 |
| 03956 | Fluorene | 86-73-7 | < 5. | 5. | 1. | ug/l | 1 |
| 03963 | Phenanthrene | 85-01-8 | < 5. | 5. | 1. | ug/l | 1 |
| 03967 | Pyrene | 129-00-0 | < 5. | 5. | 1. | ug/l | 1 |
| 03971 | Chrysene | 218-01-9 | < 5. | 5. | 1. | ug/l | 1 |
| 02302 | UST-Waters by 8260B | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | < 5. | 5. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | < 5. | 5. | 0.7 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | < 5. | 5. | 0.8 | ug/l | 1 |
| 05420 | Isopropylbenzene | 98-82-8 | < 5. | 5. | 1. | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | < 5. | 5. | 0.8 | ug/l | 1 |

Commonwealth of Pennsylvania Lab Certification No. 36-037 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| CAT | | | _ | | Dilution | |
|-------|------------------------|--------------|--------|------------------|------------------|--------|
| No. | Analysis Name | Method | Trial# | Date and Time | Analyst | Factor |
| 06035 | Lead | SW-846 6020 | 1 | 06/19/2006 21:12 | David K Beck | 1 |
| 07879 | EDB in Wastewater | SW-846 8011 | 1 | 06/16/2006 13:35 | James H Place | 1 |
| 07805 | PAHs in Water by GC/MS | SW-846 8270C | 1 | 06/17/2006 00:25 | William T Parker | 1 |
| 02302 | UST-Waters by 8260B | SW-846 8260B | 1 | 06/15/2006 00:48 | Kelly E Brickley | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790620

B158-060806 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/08/2006 12:05 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B158-

| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 06/15/2006 00:48 | Kelly E Brickley | 1 |
|-------|----------------------|-----------------------|---|------------------|---------------------|---|
| 06050 | ICP/MS SW-846 Water | SW-846 3010A modified | 1 | 06/18/2006 18:33 | James L Mertz | 1 |
| 07786 | EDB Extraction | SW-846 8011 | 1 | 06/13/2006 13:00 | Deborah M Zimmerman | 1 |
| 07807 | BNA Water Extraction | SW-846 3510C | 1 | 06/13/2006 07:30 | Danette S Cavalier | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790621

B48-060806 Grab Water Sample

SUN: Philadelphia Refinery AOI-6

Collected:06/08/2006 12:35 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B48--

| | | | | As Received | As Received | | |
|-------|-----------------------------|------------|-------------|---------------|--------------------|-------|---------|
| CAT | | | As Received | Limit of | Method | | Dilutio |
| No. | Analysis Name | CAS Number | Result | Quantitation* | Detection Limit | Units | Factor |
| 06035 | Lead | 7439-92-1 | < 0.0010 | 0.0010 | 0.000047 | mg/l | 1 |
| 07879 | EDB in Wastewater | | | | | | |
| 01087 | Ethylene dibromide | 106-93-4 | < 0.028 | 0.028 | 0.0095 | ug/l | 1 |
| 07805 | PAHs in Water by GC/MS | | | | | | |
| 03947 | Naphthalene | 91-20-3 | < 5. | 5. | 1. | ug/l | 1 |
| 03956 | Fluorene | 86-73-7 | 6. | 5. | 1. | ug/l | 1 |
| 03963 | Phenanthrene | 85-01-8 | < 5. | 5. | 1. | ug/l | 1 |
| 03967 | Pyrene | 129-00-0 | < 5. | 5. | 1. | ug/l | 1 |
| 03971 | Chrysene | 218-01-9 | < 5. | 5. | 1. | ug/l | 1 |
| 02302 | UST-Waters by 8260B | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | < 5. | 5. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | < 5. | 5. | 0.7 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | < 5. | 5. | 0.8 | ug/l | 1 |
| 05420 | Isopropylbenzene | 98-82-8 | < 5. | 5. | 1. | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | < 5. | 5. | 0.8 | ug/l | 1 |

Commonwealth of Pennsylvania Lab Certification No. 36-037 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| _00 _ 0 0 _ 0 0 _ 0 | | | | | | |
|---------------------|------------------------|--------------|--------|------------------|------------------|--------|
| CAT | | | - | Analysis | | |
| No. | Analysis Name | Method | Trial# | Date and Time | Analyst | Factor |
| 06035 | Lead | SW-846 6020 | 1 | 06/19/2006 21:15 | David K Beck | 1 |
| 07879 | EDB in Wastewater | SW-846 8011 | 1 | 06/16/2006 14:35 | James H Place | 1 |
| 07805 | PAHs in Water by GC/MS | SW-846 8270C | 1 | 06/17/2006 01:16 | William T Parker | 1 |
| 02302 | UST-Waters by 8260B | SW-846 8260B | 1 | 06/15/2006 01:10 | Kelly E Brickley | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790621

B48-060806 Grab Water Sample

SUN: Philadelphia Refinery AOI-6

Collected:06/08/2006 12:35 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B48--

| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 06/15/2006 01:10 | Kelly E Brickley | 1 |
|-------|----------------------|-----------------------|---|------------------|---------------------|---|
| 06050 | ICP/MS SW-846 Water | SW-846 3010A modified | 1 | 06/18/2006 18:33 | James L Mertz | 1 |
| 07786 | EDB Extraction | SW-846 8011 | 1 | 06/13/2006 13:00 | Deborah M Zimmerman | 1 |
| 07807 | BNA Water Extraction | SW-846 3510C | 1 | 06/13/2006 07:30 | Danette S Cavalier | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790622

B48D-060806 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/08/2006 12:20 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B48D-

| | | | | As Received | As Received | | |
|-------|-----------------------------|------------|-------------|---------------|--------------------|-------|----------|
| CAT | | | As Received | Limit of | Method | | Dilution |
| No. | Analysis Name | CAS Number | Result | Quantitation* | Detection Limit | Units | Factor |
| 06035 | Lead | 7439-92-1 | < 0.0010 | 0.0010 | 0.000047 | mg/l | 1 |
| 07879 | EDB in Wastewater | | | | | | |
| 01087 | Ethylene dibromide | 106-93-4 | < 0.029 | 0.029 | 0.0095 | ug/l | 1 |
| 07805 | PAHs in Water by GC/MS | | | | | | |
| 03947 | Naphthalene | 91-20-3 | < 5. | 5. | 1. | ug/l | 1 |
| 03956 | Fluorene | 86-73-7 | < 5. | 5. | 1. | ug/l | 1 |
| 03963 | Phenanthrene | 85-01-8 | < 5. | 5. | 1. | ug/l | 1 |
| 03967 | Pyrene | 129-00-0 | < 5. | 5. | 1. | ug/l | 1 |
| 03971 | Chrysene | 218-01-9 | < 5. | 5. | 1. | ug/l | 1 |
| 02302 | UST-Waters by 8260B | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | < 5. | 5. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | < 5. | 5. | 0.7 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | < 5. | 5. | 0.8 | ug/l | 1 |
| 05420 | Isopropylbenzene | 98-82-8 | < 5. | 5. | 1. | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | < 5. | 5. | 0.8 | ug/l | 1 |

Commonwealth of Pennsylvania Lab Certification No. 36-037 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| CAT | | | | Analysis | | Dilution |
|-------|------------------------|--------------|--------|------------------|------------------|----------|
| No. | Analysis Name | Method | Trial# | Date and Time | Analyst | Factor |
| 06035 | Lead | SW-846 6020 | 1 | 06/19/2006 21:19 | David K Beck | 1 |
| 07879 | EDB in Wastewater | SW-846 8011 | 1 | 06/16/2006 15:05 | James H Place | 1 |
| 07805 | PAHs in Water by GC/MS | SW-846 8270C | 1 | 06/17/2006 02:08 | William T Parker | 1 |
| 02302 | UST-Waters by 8260B | SW-846 8260B | 1 | 06/15/2006 01:34 | Kelly E Brickley | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790622

B48D-060806 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/08/2006 12:20 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B48D01163 GC/MS VOA Water Prep SW-846 5030B 1 06/15/2006 01:34 Kelly E Brickley 1
06050 ICP/MS SW-846 Water SW-846 3010A modified 1 06/18/2006 18:33 James L Mertz 1
07786 EDB Extraction SW-846 8011 1 06/13/2006 13:00 Deborah M Zimmerman 1
07807 BNA Water Extraction SW-846 3510C 1 06/13/2006 07:30 Danette S Cavalier 1

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790623

B160-060806 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/08/2006 12:50 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B160-

| | | | | As Received | As Received | | |
|-------|-----------------------------|------------|-------------|---------------|--------------------|-------|---------|
| CAT | | | As Received | Limit of | Method | | Dilutio |
| No. | Analysis Name | CAS Number | Result | Quantitation* | Detection Limit | Units | Factor |
| 06035 | Lead | 7439-92-1 | < 0.0010 | 0.0010 | 0.000047 | mg/l | 1 |
| 07879 | EDB in Wastewater | | | | | | |
| 01087 | Ethylene dibromide | 106-93-4 | < 0.029 | 0.029 | 0.0096 | ug/l | 1 |
| 07805 | PAHs in Water by GC/MS | | | | | | |
| 03947 | Naphthalene | 91-20-3 | < 5. | 5. | 1. | ug/l | 1 |
| 03956 | Fluorene | 86-73-7 | < 5. | 5. | 1. | ug/l | 1 |
| 03963 | Phenanthrene | 85-01-8 | < 5. | 5. | 1. | ug/l | 1 |
| 03967 | Pyrene | 129-00-0 | < 5. | 5. | 1. | ug/l | 1 |
| 03971 | Chrysene | 218-01-9 | < 5. | 5. | 1. | ug/l | 1 |
| 02302 | UST-Waters by 8260B | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | < 5. | 5. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | < 5. | 5. | 0.7 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | < 5. | 5. | 0.8 | ug/l | 1 |
| 05420 | Isopropylbenzene | 98-82-8 | < 5. | 5. | 1. | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | < 5. | 5. | 0.8 | ug/l | 1 |

Commonwealth of Pennsylvania Lab Certification No. 36-037 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| Laboracor, chironica | | | | | | | | |
|----------------------|------------------------|--------------|--------|------------------|------------------|--------|--|--|
| CAT | CAT | | | Analysis | | | | |
| No. | Analysis Name | Method | Trial# | Date and Time | Analyst | Factor | | |
| 06035 | Lead | SW-846 6020 | 1 | 06/19/2006 21:22 | David K Beck | 1 | | |
| 07879 | EDB in Wastewater | SW-846 8011 | 1 | 06/16/2006 15:35 | James H Place | 1 | | |
| 07805 | PAHs in Water by GC/MS | SW-846 8270C | 1 | 06/18/2006 21:02 | William T Parker | 1 | | |
| 02302 | UST-Waters by 8260B | SW-846 8260B | 1 | 06/15/2006 01:57 | Kelly E Brickley | 1 | | |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790623

B160-060806 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/08/2006 12:50 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B160-

| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 06/15/2006 01:57 | Kelly E Brickley | 1 |
|-------|----------------------|-----------------------|---|------------------|---------------------|---|
| 06050 | ICP/MS SW-846 Water | SW-846 3010A modified | 1 | 06/18/2006 18:33 | James L Mertz | 1 |
| 07786 | EDB Extraction | SW-846 8011 | 1 | 06/13/2006 13:00 | Deborah M Zimmerman | 1 |
| 07807 | BNA Water Extraction | SW-846 3510C | 1 | 06/13/2006 07:30 | Danette S Cavalier | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790624

B159-060806 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/08/2006 13:00 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B159-

| | | | | As Received | As Received | | |
|-------|-----------------------------|------------|-------------|---------------|--------------------|-------|---------|
| CAT | | | As Received | Limit of | Method | | Dilutio |
| No. | Analysis Name | CAS Number | Result | Quantitation* | Detection Limit | Units | Factor |
| 06035 | Lead | 7439-92-1 | < 0.0010 | 0.0010 | 0.000047 | mg/l | 1 |
| 07879 | EDB in Wastewater | | | | | | |
| 01087 | Ethylene dibromide | 106-93-4 | < 0.029 | 0.029 | 0.0096 | ug/l | 1 |
| 07805 | PAHs in Water by GC/MS | | | | | | |
| 03947 | Naphthalene | 91-20-3 | < 5. | 5. | 1. | ug/l | 1 |
| 03956 | Fluorene | 86-73-7 | 9. | 5. | 1. | ug/l | 1 |
| 03963 | Phenanthrene | 85-01-8 | < 5. | 5. | 1. | ug/l | 1 |
| 03967 | Pyrene | 129-00-0 | < 5. | 5. | 1. | ug/l | 1 |
| 03971 | Chrysene | 218-01-9 | < 5. | 5. | 1. | ug/l | 1 |
| 02302 | UST-Waters by 8260B | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | < 5. | 5. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | < 5. | 5. | 0.7 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | < 5. | 5. | 0.8 | ug/l | 1 |
| 05420 | Isopropylbenzene | 98-82-8 | < 5. | 5. | 1. | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | < 5. | 5. | 0.8 | ug/l | 1 |

Commonwealth of Pennsylvania Lab Certification No. 36-037 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| CAT | CAT | | | Analysis | | |
|-------|------------------------|--------------|--------|------------------|------------------|--------|
| No. | Analysis Name | Method | Trial# | Date and Time | Analyst | Factor |
| 06035 | Lead | SW-846 6020 | 1 | 06/19/2006 21:26 | David K Beck | 1 |
| 07879 | EDB in Wastewater | SW-846 8011 | 1 | 06/16/2006 16:05 | James H Place | 1 |
| 07805 | PAHs in Water by GC/MS | SW-846 8270C | 1 | 06/15/2006 09:31 | Mark A Clark | 1 |
| 02302 | UST-Waters by 8260B | SW-846 8260B | 1 | 06/15/2006 02:45 | Kelly E Brickley | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790624

B159-060806 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/08/2006 13:00 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B159-

| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 06/15/2006 02:45 | Kelly E Brickley | 1 |
|-------|----------------------|-----------------------|---|------------------|---------------------|---|
| 06050 | ICP/MS SW-846 Water | SW-846 3010A modified | 1 | 06/18/2006 18:33 | James L Mertz | 1 |
| 07786 | EDB Extraction | SW-846 8011 | 1 | 06/13/2006 13:00 | Deborah M Zimmerman | 1 |
| 07807 | BNA Water Extraction | SW-846 3510C | 1 | 06/14/2006 08:00 | Joseph S Feister | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790625

B151-060806 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/08/2006 13:20 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B151-

| CAT | | | As Received | As Received Limit of | As Received Method | | Dilutio |
|-------|-----------------------------|------------|-------------|-------------------------|-----------------------|-------|---------|
| No. | Analysis Name | CAS Number | Result | Quantitation* | Detection Limit | Units | Factor |
| 06035 | Lead | 7439-92-1 | < 0.0010 | 0.0010 | 0.000047 | mg/l | 1 |
| 07879 | EDB in Wastewater | | | | | | |
| 01087 | Ethylene dibromide | 106-93-4 | < 0.029 | 0.029 | 0.0095 | ug/l | 1 |
| 07805 | PAHs in Water by GC/MS | | | | | | |
| 03947 | Naphthalene | 91-20-3 | < 5. | 5. | 1. | ug/l | 1 |
| 03956 | Fluorene | 86-73-7 | < 5. | 5. | 1. | ug/l | 1 |
| 03963 | Phenanthrene | 85-01-8 | < 5. | 5. | 1. | ug/l | 1 |
| 03967 | Pyrene | 129-00-0 | < 5. | 5. | 1. | ug/l | 1 |
| 03971 | Chrysene | 218-01-9 | < 5. | 5. | 1. | ug/l | 1 |
| 02302 | UST-Waters by 8260B | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | < 5. | 5. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | < 5. | 5. | 0.7 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | < 5. | 5. | 0.8 | ug/l | 1 |
| 05420 | Isopropylbenzene | 98-82-8 | < 5. | 5. | 1. | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | < 5. | 5. | 0.8 | ug/l | 1 |

Commonwealth of Pennsylvania Lab Certification No. 36-037 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| Laborator, chironitore | | | | | | | | |
|------------------------|------------------------|--------------|----------|------------------|------------------|----------|--|--|
| CAT | | | Analysis | | | Dilution | | |
| No. | Analysis Name | Method | Trial# | Date and Time | Analyst | Factor | | |
| 06035 | Lead | SW-846 6020 | 1 | 06/19/2006 21:30 | David K Beck | 1 | | |
| 07879 | EDB in Wastewater | SW-846 8011 | 1 | 06/16/2006 16:36 | James H Place | 1 | | |
| 07805 | PAHs in Water by GC/MS | SW-846 8270C | 1 | 06/15/2006 09:53 | Mark A Clark | 1 | | |
| 02302 | UST-Waters by 8260B | SW-846 8260B | 1 | 06/15/2006 03:09 | Kelly E Brickley | 1 | | |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790625

B151-060806 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/08/2006 13:20 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B151-

| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 06/15/2006 03:09 | Kelly E Brickley | 1 |
|-------|----------------------|-----------------------|---|------------------|---------------------|---|
| 06050 | ICP/MS SW-846 Water | SW-846 3010A modified | 1 | 06/18/2006 18:33 | James L Mertz | 1 |
| 07786 | EDB Extraction | SW-846 8011 | 1 | 06/13/2006 13:00 | Deborah M Zimmerman | 1 |
| 07807 | BNA Water Extraction | SW-846 3510C | 1 | 06/14/2006 08:00 | Joseph S Feister | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790626

B154-060806 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/08/2006 13:35 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

-B154

| | | | | As Received | As Received | | |
|-------|-----------------------------|------------|-------------|---------------|--------------------|-------|----------|
| CAT | | | As Received | Limit of | Method | | Dilution |
| No. | Analysis Name | CAS Number | Result | Quantitation* | Detection Limit | Units | Factor |
| 06035 | Lead | 7439-92-1 | < 0.0010 | 0.0010 | 0.000047 | mg/l | 1 |
| 07879 | EDB in Wastewater | | | | | | |
| 01087 | Ethylene dibromide | 106-93-4 | < 0.029 | 0.029 | 0.0097 | ug/l | 1 |
| 07805 | PAHs in Water by GC/MS | | | | | | |
| 03947 | Naphthalene | 91-20-3 | 76. | 5. | 1. | ug/l | 1 |
| 03956 | Fluorene | 86-73-7 | 21. | 5. | 1. | ug/l | 1 |
| 03963 | Phenanthrene | 85-01-8 | 18. | 5. | 1. | ug/l | 1 |
| 03967 | Pyrene | 129-00-0 | < 5. | 5. | 1. | ug/l | 1 |
| 03971 | Chrysene | 218-01-9 | < 5. | 5. | 1. | ug/l | 1 |
| 02302 | UST-Waters by 8260B | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | < 1,000. | 1,000. | 100. | ug/l | 200 |
| 05401 | Benzene | 71-43-2 | 450,000. | 10,000. | 1,000. | ug/l | 2000 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | < 1,000. | 1,000. | 200. | ug/l | 200 |
| 05407 | Toluene | 108-88-3 | 6,200. | 1,000. | 140. | ug/l | 200 |
| 05415 | Ethylbenzene | 100-41-4 | < 1,000. | 1,000. | 160. | ug/l | 200 |
| 05420 | Isopropylbenzene | 98-82-8 | < 1,000. | 1,000. | 200. | ug/l | 200 |
| 06310 | Xylene (Total) | 1330-20-7 | < 1,000. | 1,000. | 160. | ug/l | 200 |

Commonwealth of Pennsylvania Lab Certification No. 36-037 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| CAT | | | _ | Analysis | | Dilution |
|-------|------------------------|--------------|--------|------------------|------------------|----------|
| No. | Analysis Name | Method | Trial# | Date and Time | Analyst | Factor |
| 06035 | Lead | SW-846 6020 | 1 | 06/19/2006 21:33 | David K Beck | 1 |
| 07879 | EDB in Wastewater | SW-846 8011 | 1 | 06/16/2006 17:05 | James H Place | 1 |
| 07805 | PAHs in Water by GC/MS | SW-846 8270C | 1 | 06/15/2006 10:14 | Mark A Clark | 1 |
| 02302 | UST-Waters by 8260B | SW-846 8260B | 1 | 06/15/2006 03:32 | Kelly E Brickley | 200 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790626

B154-060806 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/08/2006 13:35 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

-B154

| 02302 | UST-Waters by 8260B | SW-846 8260B | 1 | 06/15/2006 03:55 | Kelly E Brickley | 2000 |
|-------|----------------------|-----------------------|---|------------------|---------------------|------|
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 06/15/2006 03:32 | Kelly E Brickley | 200 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 2 | 06/15/2006 03:55 | Kelly E Brickley | 2000 |
| 06050 | ICP/MS SW-846 Water | SW-846 3010A modified | 1 | 06/18/2006 18:33 | James L Mertz | 1 |
| 07786 | EDB Extraction | SW-846 8011 | 1 | 06/13/2006 13:00 | Deborah M Zimmerman | 1 |
| 07807 | BNA Water Extraction | SW-846 3510C | 1 | 06/14/2006 08:00 | Joseph S Feister | 1 |
| | | | | | | |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790627

B156-060806 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/08/2006 13:45 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B156-

| | | | | As Received | As Received | | |
|-------|-----------------------------|------------|-------------|---------------|--------------------|-------|----------|
| CAT | | | As Received | Limit of | Method | | Dilution |
| No. | Analysis Name | CAS Number | Result | Quantitation* | Detection Limit | Units | Factor |
| 06035 | Lead | 7439-92-1 | < 0.0010 | 0.0010 | 0.000047 | mg/l | 1 |
| 07879 | EDB in Wastewater | | | | | | |
| 01087 | Ethylene dibromide | 106-93-4 | < 0.029 | 0.029 | 0.0096 | ug/l | 1 |
| 07805 | PAHs in Water by GC/MS | | | | | | |
| 03947 | Naphthalene | 91-20-3 | < 5. | 5. | 1. | ug/l | 1 |
| 03956 | Fluorene | 86-73-7 | 16. | 5. | 1. | ug/l | 1 |
| 03963 | Phenanthrene | 85-01-8 | 17. | 5. | 1. | ug/l | 1 |
| 03967 | Pyrene | 129-00-0 | < 5. | 5. | 1. | ug/l | 1 |
| 03971 | Chrysene | 218-01-9 | < 5. | 5. | 1. | ug/l | 1 |
| 02302 | UST-Waters by 8260B | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | 390. | 50. | 5. | ug/l | 10 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | < 5. | 5. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | 22. | 5. | 0.7 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | 6. | 5. | 0.8 | ug/l | 1 |
| 05420 | Isopropylbenzene | 98-82-8 | 84. | 5. | 1. | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | 39. | 5. | 0.8 | ug/l | 1 |

Commonwealth of Pennsylvania Lab Certification No. 36-037 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| | | | -, | | | |
|-------|------------------------|--------------|----------|------------------|------------------|--------|
| CAT | | | Analysis | | | |
| No. | Analysis Name | Method | Trial# | Date and Time | Analyst | Factor |
| 06035 | Lead | SW-846 6020 | 1 | 06/19/2006 21:37 | David K Beck | 1 |
| 07879 | EDB in Wastewater | SW-846 8011 | 1 | 06/16/2006 17:35 | James H Place | 1 |
| 07805 | PAHs in Water by GC/MS | SW-846 8270C | 1 | 06/15/2006 10:36 | Mark A Clark | 1 |
| 02302 | UST-Waters by 8260B | SW-846 8260B | 1 | 06/17/2006 03:18 | Nicholas R Rossi | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790627

B156-060806 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/08/2006 13:45 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

| B156- | | | | | | |
|-------|----------------------|-----------------------|---|------------------|---------------------|----|
| 02302 | UST-Waters by 8260B | SW-846 8260B | 1 | 06/17/2006 03:42 | Nicholas R Rossi | 10 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 06/17/2006 03:18 | Nicholas R Rossi | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 2 | 06/17/2006 03:42 | Nicholas R Rossi | 10 |
| 06050 | ICP/MS SW-846 Water | SW-846 3010A modified | 1 | 06/18/2006 18:33 | James L Mertz | 1 |
| 07786 | EDB Extraction | SW-846 8011 | 1 | 06/13/2006 13:00 | Deborah M Zimmerman | 1 |
| 07807 | BNA Water Extraction | SW-846 3510C | 1 | 06/14/2006 08:00 | Joseph S Feister | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790628

B155-060806 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/08/2006 14:00 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B155-

| CAT | | | As Received | As Received Limit of | As Received Method | | Dilution |
|-------|-----------------------------|------------|-------------|-------------------------|-----------------------|-------|----------|
| No. | Analysis Name | CAS Number | Result | Quantitation* | Detection Limit | Units | Factor |
| 06035 | Lead | 7439-92-1 | < 0.0010 | 0.0010 | 0.000047 | mg/l | 1 |
| 07879 | EDB in Wastewater | | | | | | |
| 01087 | Ethylene dibromide | 106-93-4 | < 0.029 | 0.029 | 0.0096 | ug/l | 1 |
| 07805 | PAHs in Water by GC/MS | | | | | | |
| 03947 | Naphthalene | 91-20-3 | 29. | 5. | 1. | ug/l | 1 |
| 03956 | Fluorene | 86-73-7 | 10. | 5. | 1. | ug/l | 1 |
| 03963 | Phenanthrene | 85-01-8 | 14. | 5. | 1. | ug/l | 1 |
| 03967 | Pyrene | 129-00-0 | < 5. | 5. | 1. | ug/l | 1 |
| 03971 | Chrysene | 218-01-9 | < 5. | 5. | 1. | ug/l | 1 |
| 02302 | UST-Waters by 8260B | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | < 1,000. | 1,000. | 100. | ug/l | 200 |
| 05401 | Benzene | 71-43-2 | 280,000. | 10,000. | 1,000. | ug/l | 2000 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | < 1,000. | 1,000. | 200. | ug/l | 200 |
| 05407 | Toluene | 108-88-3 | < 1,000. | 1,000. | 140. | ug/l | 200 |
| 05415 | Ethylbenzene | 100-41-4 | < 1,000. | 1,000. | 160. | ug/l | 200 |
| 05420 | Isopropylbenzene | 98-82-8 | < 1,000. | 1,000. | 200. | ug/l | 200 |
| 06310 | Xylene (Total) | 1330-20-7 | < 1,000. | 1,000. | 160. | ug/l | 200 |

Commonwealth of Pennsylvania Lab Certification No. 36-037 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| | | | EGROT GOL, | 0111 0. | | | |
|----|-----|------------------------|--------------|----------|------------------|---------------------|----------|
| CA | CAT | | | Analysis | | | Dilution |
| No | | Analysis Name | Method | Trial# | Date and Time | Analyst | Factor |
| 06 | 035 | Lead | SW-846 6020 | 1 | 06/19/2006 21:41 | David K Beck | 1 |
| 07 | 879 | EDB in Wastewater | SW-846 8011 | 1 | 06/16/2006 18:06 | James H Place | 1 |
| 07 | 805 | PAHs in Water by GC/MS | SW-846 8270C | 1 | 06/15/2006 15:04 | Linda M Hartenstine | 1 |
| 02 | 302 | UST-Waters by 8260B | SW-846 8260B | 1 | 06/17/2006 04:04 | Nicholas R Rossi | 200 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790628

B155-060806 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/08/2006 14:00 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B155-

| בכדם | | | | | | |
|-------|----------------------|-----------------------|---|------------------|---------------------|------|
| 02302 | UST-Waters by 8260B | SW-846 8260B | 1 | 06/17/2006 04:27 | Nicholas R Rossi | 2000 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 06/17/2006 04:04 | Nicholas R Rossi | 200 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 2 | 06/17/2006 04:27 | Nicholas R Rossi | 2000 |
| 06050 | ICP/MS SW-846 Water | SW-846 3010A modified | 1 | 06/18/2006 18:33 | James L Mertz | 1 |
| 07786 | EDB Extraction | SW-846 8011 | 1 | 06/13/2006 13:00 | Deborah M Zimmerman | 1 |
| 07807 | BNA Water Extraction | SW-846 3510C | 1 | 06/14/2006 08:00 | Joseph S Feister | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790629

B149-060806 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/08/2006 14:10 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B149-

| | | | | As Received | As Received | | |
|-------|-----------------------------|------------|-------------|---------------|--------------------|-------|----------|
| CAT | | | As Received | Limit of | Method | | Dilution |
| No. | Analysis Name | CAS Number | Result | Quantitation* | Detection Limit | Units | Factor |
| 06035 | Lead | 7439-92-1 | < 0.0010 | 0.0010 | 0.000047 | mg/l | 1 |
| 07879 | EDB in Wastewater | | | | | | |
| 01087 | Ethylene dibromide | 106-93-4 | < 0.029 | 0.029 | 0.0096 | ug/l | 1 |
| 07805 | PAHs in Water by GC/MS | | | | | | |
| 03947 | Naphthalene | 91-20-3 | 7. | 5. | 1. | ug/l | 1 |
| 03956 | Fluorene | 86-73-7 | < 5. | 5. | 1. | ug/l | 1 |
| 03963 | Phenanthrene | 85-01-8 | < 5. | 5. | 1. | ug/l | 1 |
| 03967 | Pyrene | 129-00-0 | < 5. | 5. | 1. | ug/l | 1 |
| 03971 | Chrysene | 218-01-9 | < 5. | 5. | 1. | ug/l | 1 |
| 02302 | UST-Waters by 8260B | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | < 250. | 250. | 25. | ug/l | 50 |
| 05401 | Benzene | 71-43-2 | 79,000. | 2,500. | 250. | ug/l | 500 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | < 250. | 250. | 50. | ug/l | 50 |
| 05407 | Toluene | 108-88-3 | 2,200. | 250. | 35. | ug/l | 50 |
| 05415 | Ethylbenzene | 100-41-4 | < 250. | 250. | 40. | ug/l | 50 |
| 05420 | Isopropylbenzene | 98-82-8 | 810. | 250. | 50. | ug/l | 50 |
| 06310 | Xylene (Total) | 1330-20-7 | < 250. | 250. | 40. | ug/l | 50 |

Commonwealth of Pennsylvania Lab Certification No. 36-037 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| CAT | | | | Analysis | | Dilution |
|-------|------------------------|--------------|--------|------------------|---------------------|----------|
| No. | Analysis Name | Method | Trial# | Date and Time | Analyst | Factor |
| 06035 | Lead | SW-846 6020 | 1 | 06/19/2006 21:51 | David K Beck | 1 |
| 07879 | EDB in Wastewater | SW-846 8011 | 1 | 06/16/2006 18:36 | James H Place | 1 |
| 07805 | PAHs in Water by GC/MS | SW-846 8270C | 1 | 06/15/2006 15:26 | Linda M Hartenstine | 1 |
| 02302 | UST-Waters by 8260B | SW-846 8260B | 1 | 06/17/2006 04:50 | Nicholas R Rossi | 50 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790629

B149-060806 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/08/2006 14:10 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B149-

| 02302 | UST-Waters by 8260B | SW-846 8260B | 1 | 06/17/2006 05:13 | Nicholas R Rossi | 500 |
|-------|----------------------|-----------------------|---|------------------|---------------------|-----|
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 06/17/2006 04:50 | Nicholas R Rossi | 50 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 2 | 06/17/2006 05:13 | Nicholas R Rossi | 500 |
| 06050 | ICP/MS SW-846 Water | SW-846 3010A modified | 1 | 06/18/2006 18:33 | James L Mertz | 1 |
| 07786 | EDB Extraction | SW-846 8011 | 1 | 06/13/2006 13:00 | Deborah M Zimmerman | 1 |
| 07807 | BNA Water Extraction | SW-846 3510C | 1 | 06/14/2006 08:00 | Joseph S Feister | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790630

B153-060906 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/09/2006 10:40 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B153-

| | | | | As Received | As Received | | |
|-------|-----------------------------|------------|-------------|---------------|--------------------|-------|----------|
| CAT | | | As Received | Limit of | Method | | Dilution |
| No. | Analysis Name | CAS Number | Result | Quantitation* | Detection Limit | Units | Factor |
| 06035 | Lead | 7439-92-1 | < 0.0010 | 0.0010 | 0.000047 | mg/l | 1 |
| 07879 | EDB in Wastewater | | | | | | |
| 01087 | Ethylene dibromide | 106-93-4 | < 0.029 | 0.029 | 0.0096 | ug/l | 1 |
| 07805 | PAHs in Water by GC/MS | | | | | | |
| 03947 | Naphthalene | 91-20-3 | < 5. | 5. | 1. | ug/l | 1 |
| 03956 | Fluorene | 86-73-7 | < 5. | 5. | 1. | ug/l | 1 |
| 03963 | Phenanthrene | 85-01-8 | < 5. | 5. | 1. | ug/l | 1 |
| 03967 | Pyrene | 129-00-0 | < 5. | 5. | 1. | ug/l | 1 |
| 03971 | Chrysene | 218-01-9 | < 5. | 5. | 1. | ug/l | 1 |
| 02302 | UST-Waters by 8260B | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | < 5. | 5. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | < 5. | 5. | 0.7 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | < 5. | 5. | 0.8 | ug/l | 1 |
| 05420 | Isopropylbenzene | 98-82-8 | 9. | 5. | 1. | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | < 5. | 5. | 0.8 | ug/l | 1 |

Commonwealth of Pennsylvania Lab Certification No. 36-037 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| CAT | | | | Analysis | | Dilution |
|-------|------------------------|--------------|--------|------------------|---------------------|----------|
| No. | Analysis Name | Method | Trial# | Date and Time | Analyst | Factor |
| 06035 | Lead | SW-846 6020 | 1 | 06/19/2006 21:55 | David K Beck | 1 |
| 07879 | EDB in Wastewater | SW-846 8011 | 1 | 06/22/2006 05:56 | James H Place | 1 |
| 07805 | PAHs in Water by GC/MS | SW-846 8270C | 1 | 06/15/2006 15:47 | Linda M Hartenstine | 1 |
| 02302 | UST-Waters by 8260B | SW-846 8260B | 1 | 06/17/2006 05:36 | Nicholas R Rossi | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790630

B153-060906 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/09/2006 10:40 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B153-

| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 06/17/2006 05:36 | Nicholas R Rossi | 1 |
|-------|----------------------|-----------------------|---|------------------|---------------------|---|
| 06050 | ICP/MS SW-846 Water | SW-846 3010A modified | 1 | 06/18/2006 18:33 | James L Mertz | 1 |
| 07786 | EDB Extraction | SW-846 8011 | 1 | 06/13/2006 13:00 | Deborah M Zimmerman | 1 |
| 07807 | BNA Water Extraction | SW-846 3510C | 1 | 06/14/2006 08:00 | Joseph S Feister | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790631

B152-060906 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/09/2006 10:55 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B152-

| | | | | As Received | As Received | | |
|-------|-----------------------------|------------|-------------|---------------|--------------------|-------|---------|
| CAT | | | As Received | Limit of | Method | | Dilutio |
| No. | Analysis Name | CAS Number | Result | Quantitation* | Detection Limit | Units | Factor |
| 06035 | Lead | 7439-92-1 | < 0.0010 | 0.0010 | 0.000047 | mg/l | 1 |
| 07879 | EDB in Wastewater | | | | | | |
| 01087 | Ethylene dibromide | 106-93-4 | < 0.029 | 0.029 | 0.0096 | ug/l | 1 |
| 07805 | PAHs in Water by GC/MS | | | | | | |
| 03947 | Naphthalene | 91-20-3 | < 5. | 5. | 1. | ug/l | 1 |
| 03956 | Fluorene | 86-73-7 | 7. | 5. | 1. | ug/l | 1 |
| 03963 | Phenanthrene | 85-01-8 | < 5. | 5. | 1. | ug/l | 1 |
| 03967 | Pyrene | 129-00-0 | < 5. | 5. | 1. | ug/l | 1 |
| 03971 | Chrysene | 218-01-9 | < 5. | 5. | 1. | ug/l | 1 |
| 02302 | UST-Waters by 8260B | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | 78. | 5. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | < 5. | 5. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | 6. | 5. | 0.7 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | < 5. | 5. | 0.8 | ug/l | 1 |
| 05420 | Isopropylbenzene | 98-82-8 | 94. | 5. | 1. | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | 5. | 5. | 0.8 | ug/l | 1 |

Commonwealth of Pennsylvania Lab Certification No. 36-037 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| | | | -, | | | |
|-------|------------------------|--------------|--------|------------------|---------------------|----------|
| CAT | | | | Analysis | | Dilution |
| No. | Analysis Name | Method | Trial# | Date and Time | Analyst | Factor |
| 06035 | Lead | SW-846 6020 | 1 | 06/19/2006 21:59 | David K Beck | 1 |
| 07879 | EDB in Wastewater | SW-846 8011 | 1 | 06/22/2006 06:56 | James H Place | 1 |
| 07805 | PAHs in Water by GC/MS | SW-846 8270C | 1 | 06/15/2006 16:09 | Linda M Hartenstine | 1 |
| 02302 | UST-Waters by 8260B | SW-846 8260B | 1 | 06/14/2006 11:33 | Seth J Good | 1 |

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Lancaster Laboratories Sample No. WW 4790631

B152-060906 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/09/2006 10:55 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B152-

| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 06/14/2006 11:33 | Seth J Good | 1 |
|-------|----------------------|-----------------------|---|------------------|---------------------|---|
| 06050 | ICP/MS SW-846 Water | SW-846 3010A modified | 1 | 06/18/2006 18:33 | James L Mertz | 1 |
| 07786 | EDB Extraction | SW-846 8011 | 1 | 06/13/2006 13:00 | Deborah M Zimmerman | 1 |
| 07807 | BNA Water Extraction | SW-846 3510C | 1 | 06/14/2006 08:00 | Joseph S Feister | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790632

B94-060906 Grab Water Sample

SUN: Philadelphia Refinery AOI-6

Collected:06/09/2006 11:10 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B94--

| | | | | As Received | As Received | | |
|-------|-----------------------------|------------|-------------|---------------|--------------------|-------|---------|
| CAT | | | As Received | Limit of | Method | | Dilutio |
| No. | Analysis Name | CAS Number | Result | Quantitation* | Detection Limit | Units | Factor |
| 06035 | Lead | 7439-92-1 | < 0.0010 | 0.0010 | 0.000047 | mg/l | 1 |
| 07879 | EDB in Wastewater | | | | | | |
| 01087 | Ethylene dibromide | 106-93-4 | < 0.029 | 0.029 | 0.0096 | ug/l | 1 |
| 07805 | PAHs in Water by GC/MS | | | | | | |
| 03947 | Naphthalene | 91-20-3 | < 5. | 5. | 1. | ug/l | 1 |
| 03956 | Fluorene | 86-73-7 | < 5. | 5. | 1. | ug/l | 1 |
| 03963 | Phenanthrene | 85-01-8 | < 5. | 5. | 1. | ug/l | 1 |
| 03967 | Pyrene | 129-00-0 | < 5. | 5. | 1. | ug/l | 1 |
| 03971 | Chrysene | 218-01-9 | < 5. | 5. | 1. | ug/l | 1 |
| 02302 | UST-Waters by 8260B | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | 20. | 5. | 0.5 | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | < 5. | 5. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | < 5. | 5. | 0.7 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | < 5. | 5. | 0.8 | ug/l | 1 |
| 05420 | Isopropylbenzene | 98-82-8 | < 5. | 5. | 1. | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | < 5. | 5. | 0.8 | ug/l | 1 |

Commonwealth of Pennsylvania Lab Certification No. 36-037 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| | | EGECT GCCT , | 0111 0. | | | |
|-------|------------------------|--------------|---------|------------------|---------------------|----------|
| CAT | | _ | | Analysis | | Dilution |
| No. | Analysis Name | Method | Trial# | Date and Time | Analyst | Factor |
| 06035 | Lead | SW-846 6020 | 1 | 06/19/2006 22:02 | David K Beck | 1 |
| 07879 | EDB in Wastewater | SW-846 8011 | 1 | 06/22/2006 07:56 | James H Place | 1 |
| 07805 | PAHs in Water by GC/MS | SW-846 8270C | 1 | 06/15/2006 16:31 | Linda M Hartenstine | 1 |
| 02302 | UST-Waters by 8260B | SW-846 8260B | 1 | 06/14/2006 11:56 | Seth J Good | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790632

B94-060906 Grab Water Sample

SUN: Philadelphia Refinery AOI-6

Collected:06/09/2006 11:10 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B94--

| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 06/14/2006 11:56 | Seth J Good | 1 |
|-------|----------------------|-----------------------|---|------------------|---------------------|---|
| 06050 | ICP/MS SW-846 Water | SW-846 3010A modified | 1 | 06/18/2006 18:33 | James L Mertz | 1 |
| 07786 | EDB Extraction | SW-846 8011 | 1 | 06/13/2006 13:00 | Deborah M Zimmerman | 1 |
| 07807 | BNA Water Extraction | SW-846 3510C | 1 | 06/14/2006 08:00 | Joseph S Feister | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790633

WPM8-060906 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/09/2006 08:30 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

WPM8-

| | | | | As Received | As Received | | |
|-------|-----------------------------|------------|-------------|---------------|--------------------|-------|----------|
| CAT | | | As Received | Limit of | Method | | Dilution |
| No. | Analysis Name | CAS Number | Result | Quantitation* | Detection Limit | Units | Factor |
| 06035 | Lead | 7439-92-1 | < 0.0010 | 0.0010 | 0.000047 | mg/l | 1 |
| 07879 | EDB in Wastewater | | | | | | |
| 01087 | Ethylene dibromide | 106-93-4 | < 0.029 | 0.029 | 0.0097 | ug/l | 1 |
| 07805 | PAHs in Water by GC/MS | | | | | | |
| 03947 | Naphthalene | 91-20-3 | < 5. | 5. | 1. | ug/l | 1 |
| 03956 | Fluorene | 86-73-7 | < 5. | 5. | 1. | ug/l | 1 |
| 03963 | Phenanthrene | 85-01-8 | < 5. | 5. | 1. | ug/l | 1 |
| 03967 | Pyrene | 129-00-0 | < 5. | 5. | 1. | ug/l | 1 |
| 03971 | Chrysene | 218-01-9 | < 5. | 5. | 1. | ug/l | 1 |
| 02302 | UST-Waters by 8260B | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | 23. | 5. | 0.5 | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | < 5. | 5. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | < 5. | 5. | 0.7 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | < 5. | 5. | 0.8 | ug/l | 1 |
| 05420 | Isopropylbenzene | 98-82-8 | 40. | 5. | 1. | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | < 5. | 5. | 0.8 | ug/l | 1 |

Commonwealth of Pennsylvania Lab Certification No. 36-037 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| CAT | | | | Analysis | | Dilution |
|-------|------------------------|--------------|--------|------------------|---------------------|----------|
| No. | Analysis Name | Method | Trial# | Date and Time | Analyst | Factor |
| 06035 | Lead | SW-846 6020 | 1 | 06/19/2006 22:06 | David K Beck | 1 |
| 07879 | EDB in Wastewater | SW-846 8011 | 1 | 06/22/2006 08:26 | James H Place | 1 |
| 07805 | PAHs in Water by GC/MS | SW-846 8270C | 1 | 06/15/2006 16:52 | Linda M Hartenstine | 1 |
| 02302 | UST-Waters by 8260B | SW-846 8260B | 1 | 06/14/2006 12:20 | Seth J Good | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790633

WPM8-060906 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/09/2006 08:30 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

WPM8-

| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 06/14/2006 12:20 | Seth J Good | 1 |
|-------|----------------------|-----------------------|---|------------------|---------------------|---|
| 06050 | ICP/MS SW-846 Water | SW-846 3010A modified | 1 | 06/18/2006 18:33 | James L Mertz | 1 |
| 07786 | EDB Extraction | SW-846 8011 | 1 | 06/13/2006 13:00 | Deborah M Zimmerman | 1 |
| 07807 | BNA Water Extraction | SW-846 3510C | 1 | 06/14/2006 08:00 | Joseph S Feister | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790634

WPM11-060906 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/09/2006 09:10 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

WPM11

| | | | | As Received | As Received | | |
|-------|-----------------------------|------------|-------------|---------------|--------------------|-------|---------|
| CAT | | | As Received | Limit of | Method | | Dilutio |
| No. | Analysis Name | CAS Number | Result | Quantitation* | Detection Limit | Units | Factor |
| 06035 | Lead | 7439-92-1 | < 0.0010 | 0.0010 | 0.000047 | mg/l | 1 |
| 07879 | EDB in Wastewater | | | | | | |
| 01087 | Ethylene dibromide | 106-93-4 | < 0.029 | 0.029 | 0.0096 | ug/l | 1 |
| 07805 | PAHs in Water by GC/MS | | | | | | |
| 03947 | Naphthalene | 91-20-3 | < 5. | 5. | 1. | ug/l | 1 |
| 03956 | Fluorene | 86-73-7 | 6. | 5. | 1. | ug/l | 1 |
| 03963 | Phenanthrene | 85-01-8 | 14. | 5. | 1. | ug/l | 1 |
| 03967 | Pyrene | 129-00-0 | 50. | 5. | 1. | ug/l | 1 |
| 03971 | Chrysene | 218-01-9 | 28. | 5. | 1. | ug/l | 1 |
| 02302 | UST-Waters by 8260B | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | < 5. | 5. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | < 5. | 5. | 0.7 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | < 5. | 5. | 0.8 | ug/l | 1 |
| 05420 | Isopropylbenzene | 98-82-8 | < 5. | 5. | 1. | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | < 5. | 5. | 0.8 | ug/l | 1 |

Commonwealth of Pennsylvania Lab Certification No. 36-037 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| | | EGECT GCCT , | 0111 0. | | | |
|-------|------------------------|--------------|---------|------------------|---------------------|----------|
| CAT | | _ | | Analysis | | Dilution |
| No. | Analysis Name | Method | Trial# | Date and Time | Analyst | Factor |
| 06035 | Lead | SW-846 6020 | 1 | 06/19/2006 22:09 | David K Beck | 1 |
| 07879 | EDB in Wastewater | SW-846 8011 | 1 | 06/22/2006 09:26 | James H Place | 1 |
| 07805 | PAHs in Water by GC/MS | SW-846 8270C | 1 | 06/15/2006 17:14 | Linda M Hartenstine | 1 |
| 02302 | UST-Waters by 8260B | SW-846 8260B | 1 | 06/14/2006 13:07 | Seth J Good | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790634

WPM11-060906 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/09/2006 09:10 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

WPM11

| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 06/14/2006 13:07 | Seth J Good | 1 |
|-------|----------------------|-----------------------|---|------------------|---------------------|---|
| 06050 | ICP/MS SW-846 Water | SW-846 3010A modified | 1 | 06/18/2006 18:33 | James L Mertz | 1 |
| 07786 | EDB Extraction | SW-846 8011 | 1 | 06/13/2006 13:00 | Deborah M Zimmerman | 1 |
| 07807 | BNA Water Extraction | SW-846 3510C | 1 | 06/14/2006 08:00 | Joseph S Feister | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790635

B163-060906 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/09/2006 10:20 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B163-

| | | | | As Received | As Received | | |
|-------|-----------------------------|------------|-------------|---------------|--------------------|-------|---------|
| CAT | | | As Received | Limit of | Method | | Dilutio |
| No. | Analysis Name | CAS Number | Result | Quantitation* | Detection Limit | Units | Factor |
| 06035 | Lead | 7439-92-1 | < 0.0010 | 0.0010 | 0.000047 | mg/l | 1 |
| 07879 | EDB in Wastewater | | | | | | |
| 01087 | Ethylene dibromide | 106-93-4 | < 0.029 | 0.029 | 0.0096 | ug/l | 1 |
| 07805 | PAHs in Water by GC/MS | | | | | | |
| 03947 | Naphthalene | 91-20-3 | < 5. | 5. | 1. | ug/l | 1 |
| 03956 | Fluorene | 86-73-7 | 35. | 5. | 1. | ug/l | 1 |
| 03963 | Phenanthrene | 85-01-8 | 20. | 5. | 1. | ug/l | 1 |
| 03967 | Pyrene | 129-00-0 | < 5. | 5. | 1. | ug/l | 1 |
| 03971 | Chrysene | 218-01-9 | < 5. | 5. | 1. | ug/l | 1 |
| 02302 | UST-Waters by 8260B | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | < 25. | 25. | 3. | ug/l | 5 |
| 05401 | Benzene | 71-43-2 | 4,800. | 250. | 25. | ug/l | 50 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | < 25. | 25. | 5. | ug/l | 5 |
| 05407 | Toluene | 108-88-3 | < 25. | 25. | 4. | ug/l | 5 |
| 05415 | Ethylbenzene | 100-41-4 | < 25. | 25. | 4. | ug/l | 5 |
| 05420 | Isopropylbenzene | 98-82-8 | < 25. | 25. | 5. | ug/l | 5 |
| 06310 | Xylene (Total) | 1330-20-7 | < 25. | 25. | 4. | ug/l | 5 |

Commonwealth of Pennsylvania Lab Certification No. 36-037 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| Laboratory chirolicae | | | | | | | | | | | |
|-----------------------|------|------------------------|--------------|----------|------------------|---------------------|----------|--|--|--|--|
| CZ | CAT | | | Analysis | | | Dilution | | | | |
| No | ٥. | Analysis Name | Method | Trial# | Date and Time | Analyst | Factor | | | | |
| 0.6 | 5035 | Lead | SW-846 6020 | 1 | 06/19/2006 22:13 | David K Beck | 1 | | | | |
| 0 7 | 7879 | EDB in Wastewater | SW-846 8011 | 1 | 06/22/2006 09:56 | James H Place | 1 | | | | |
| 0 7 | 7805 | PAHs in Water by GC/MS | SW-846 8270C | 1 | 06/15/2006 17:36 | Linda M Hartenstine | 1 | | | | |
| 02 | 2302 | UST-Waters by 8260B | SW-846 8260B | 1 | 06/14/2006 13:30 | Seth J Good | 5 | | | | |

^{*=}This limit was used in the evaluation of the final result



1 06/14/2006 08:00 Joseph S Feister

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1

Lancaster Laboratories Sample No. WW 4790635

B163-060906 Grab Water Sample SUN: Philadelphia Refinery AOI-6

07807 BNA Water Extraction

Collected:06/09/2006 10:20 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

SW-846 3510C

B163-1 06/14/2006 13:54 Seth J Good 1 06/14/2006 13:30 Seth J Good 2 06/14/2006 13:54 Seth J Good SW-846 8260B 02302 UST-Waters by 8260B 50 SW-846 5030B 01163 GC/MS VOA Water Prep GC/MS VOA Water Prep SW-846 5030B 06/14/2006 13:54 Seth J Good 50 01163 SW-846 3010A modified 1 06/18/2006 18:33 James L Mertz ICP/MS SW-846 Water 06050 1 SW-846 8011 1 06/13/2006 13:00 Deborah M Zimmerman 07786 EDB Extraction

^{*=}This limit was used in the evaluation of the final result



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Page 1 of 2

Lancaster Laboratories Sample No. WW 4790636

B145-060906 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/09/2006 11:25 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B145-

| | | | | As Received | As Received | | |
|-------|-----------------------------|------------|-------------|---------------|--------------------|-------|----------|
| CAT | | | As Received | Limit of | Method | | Dilution |
| No. | Analysis Name | CAS Number | Result | Quantitation* | Detection Limit | Units | Factor |
| 06035 | Lead | 7439-92-1 | < 0.0010 | 0.0010 | 0.000047 | mg/l | 1 |
| 07879 | EDB in Wastewater | | | | | | |
| 01087 | Ethylene dibromide | 106-93-4 | < 0.029 | 0.029 | 0.0096 | ug/l | 1 |
| 07805 | PAHs in Water by GC/MS | | | | | | |
| 03947 | Naphthalene | 91-20-3 | 11. | 5. | 1. | ug/l | 1 |
| 03956 | Fluorene | 86-73-7 | 50. | 5. | 1. | ug/l | 1 |
| 03963 | Phenanthrene | 85-01-8 | 43. | 5. | 1. | ug/l | 1 |
| 03967 | Pyrene | 129-00-0 | 12. | 5. | 1. | ug/l | 1 |
| 03971 | Chrysene | 218-01-9 | < 5. | 5. | 1. | ug/l | 1 |
| 02302 | UST-Waters by 8260B | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | 43. | 5. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | < 5. | 5. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | < 5. | 5. | 0.7 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | < 5. | 5. | 0.8 | ug/l | 1 |
| 05420 | Isopropylbenzene | 98-82-8 | 78. | 5. | 1. | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | 11. | 5. | 0.8 | ug/l | 1 |

Commonwealth of Pennsylvania Lab Certification No. 36-037 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

| CAT | | | _ | | Dilution | |
|-------|------------------------|--------------|--------|------------------|---------------------|--------|
| No. | Analysis Name | Method | Trial# | Date and Time | Analyst | Factor |
| 06035 | Lead | SW-846 6020 | 1 | 06/22/2006 12:41 | Jayme E Curet | 1 |
| 07879 | EDB in Wastewater | SW-846 8011 | 1 | 06/22/2006 10:27 | James H Place | 1 |
| 07805 | PAHs in Water by GC/MS | SW-846 8270C | 1 | 06/15/2006 17:57 | Linda M Hartenstine | 1 |
| 02302 | UST-Waters by 8260B | SW-846 8260B | 1 | 06/14/2006 18:27 | Lauren C Marzario | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790636

B145-060906 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/09/2006 11:25 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B145-

| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 06/14/2006 18:27 | Lauren C Marzario | 1 |
|-------|----------------------|-----------------------|---|------------------|---------------------|---|
| 06050 | ICP/MS SW-846 Water | SW-846 3010A modified | 1 | 06/20/2006 01:15 | Helen L Schaeffer | 1 |
| 07786 | EDB Extraction | SW-846 8011 | 1 | 06/13/2006 13:00 | Deborah M Zimmerman | 1 |
| 07807 | BNA Water Extraction | SW-846 3510C | 1 | 06/14/2006 08:00 | Joseph S Feister | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790637

WP16-5-060906 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/09/2006 09:20 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

WP165

| CAT | | | As Received | As Received Limit of | As Received Method | | Dilutio |
|-------|-----------------------------|------------|-------------|-------------------------|-----------------------|-------|---------|
| No. | Analysis Name | CAS Number | Result | Quantitation* | Detection Limit | Units | Factor |
| 06035 | Lead | 7439-92-1 | < 0.0010 | 0.0010 | 0.000047 | mg/l | 1 |
| 07879 | EDB in Wastewater | | | | | | |
| 01087 | Ethylene dibromide | 106-93-4 | < 0.029 | 0.029 | 0.0098 | ug/l | 1 |
| 07805 | PAHs in Water by GC/MS | | | | | | |
| 03947 | Naphthalene | 91-20-3 | < 5. | 5. | 1. | ug/l | 1 |
| 03956 | Fluorene | 86-73-7 | < 5. | 5. | 1. | ug/l | 1 |
| 03963 | Phenanthrene | 85-01-8 | < 5. | 5. | 1. | ug/l | 1 |
| 03967 | Pyrene | 129-00-0 | < 5. | 5. | 1. | ug/l | 1 |
| 03971 | Chrysene | 218-01-9 | < 5. | 5. | 1. | ug/l | 1 |
| 02302 | UST-Waters by 8260B | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | < 5. | 5. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | < 5. | 5. | 0.7 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | < 5. | 5. | 0.8 | ug/l | 1 |
| 05420 | Isopropylbenzene | 98-82-8 | < 5. | 5. | 1. | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | < 5. | 5. | 0.8 | ug/l | 1 |

Commonwealth of Pennsylvania Lab Certification No. 36-037 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

| | | _000_0.00_ | , | | | | | | |
|-------|------------------------|--------------|--------|------------------|---------------------|--------|--|--|--|
| CAT | | | - | Analysis | | | | | |
| No. | Analysis Name | Method | Trial# | Date and Time | Analyst | Factor | | | |
| 06035 | Lead | SW-846 6020 | 1 | 06/22/2006 12:55 | Jayme E Curet | 1 | | | |
| 07879 | EDB in Wastewater | SW-846 8011 | 1 | 06/22/2006 10:57 | James H Place | 1 | | | |
| 07805 | PAHs in Water by GC/MS | SW-846 8270C | 1 | 06/15/2006 18:19 | Linda M Hartenstine | 1 | | | |
| 02302 | UST-Waters by 8260B | SW-846 8260B | 1 | 06/14/2006 19:14 | Lauren C Marzario | 1 | | | |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790637

WP16-5-060906 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/09/2006 09:20 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

WP165

| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 06/14/2006 19:14 | Lauren C Marzario | 1 |
|-------|----------------------|-----------------------|---|------------------|---------------------|---|
| 06050 | ICP/MS SW-846 Water | SW-846 3010A modified | 1 | 06/20/2006 01:15 | Helen L Schaeffer | 1 |
| 07786 | EDB Extraction | SW-846 8011 | 1 | 06/13/2006 13:00 | Deborah M Zimmerman | 1 |
| 07807 | BNA Water Extraction | SW-846 3510C | 1 | 06/14/2006 08:00 | Joseph S Feister | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790638

B157-060906 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/09/2006 13:05 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B157-

| | | | | As Received | As Received | | |
|-------|-----------------------------|------------|-------------|---------------|--------------------|-------|----------|
| CAT | | | As Received | Limit of | Method | | Dilution |
| No. | Analysis Name | CAS Number | Result | Quantitation* | Detection Limit | Units | Factor |
| 06035 | Lead | 7439-92-1 | 0.0166 | 0.0010 | 0.000047 | mg/l | 1 |
| 07879 | EDB in Wastewater | | | | | | |
| 01087 | Ethylene dibromide | 106-93-4 | < 0.029 | 0.029 | 0.0095 | ug/l | 1 |
| 07805 | PAHs in Water by GC/MS | | | | | | |
| 03947 | Naphthalene | 91-20-3 | < 5. | 5. | 1. | ug/l | 1 |
| 03956 | Fluorene | 86-73-7 | 14. | 5. | 1. | ug/l | 1 |
| 03963 | Phenanthrene | 85-01-8 | 25. | 5. | 1. | ug/l | 1 |
| 03967 | Pyrene | 129-00-0 | 20. | 5. | 1. | ug/l | 1 |
| 03971 | Chrysene | 218-01-9 | 6. | 5. | 1. | ug/l | 1 |
| 02302 | UST-Waters by 8260B | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | < 5. | 5. | 0.5 | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | 66. | 5. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | < 5. | 5. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | 40. | 5. | 0.7 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | 14. | 5. | 0.8 | ug/l | 1 |
| 05420 | Isopropylbenzene | 98-82-8 | 6. | 5. | 1. | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | 79. | 5. | 0.8 | ug/l | 1 |

Commonwealth of Pennsylvania Lab Certification No. 36-037 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

| | | _000_ | , | | | |
|-------|------------------------|--------------|--------|------------------|---------------------|--------|
| CAT | | | - | | Dilution | |
| No. | Analysis Name | Method | Trial# | Date and Time | Analyst | Factor |
| 06035 | Lead | SW-846 6020 | 1 | 06/22/2006 12:58 | Jayme E Curet | 1 |
| 07879 | EDB in Wastewater | SW-846 8011 | 1 | 06/22/2006 11:27 | James H Place | 1 |
| 07805 | PAHs in Water by GC/MS | SW-846 8270C | 1 | 06/15/2006 18:41 | Linda M Hartenstine | 1 |
| 02302 | UST-Waters by 8260B | SW-846 8260B | 1 | 06/14/2006 19:38 | Lauren C Marzario | 1 |

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4790638

B157-060906 Grab Water Sample SUN: Philadelphia Refinery AOI-6

Collected:06/09/2006 13:05 by MBS Account Number: 10132

Submitted: 06/09/2006 18:00 SUN: Aquaterra Tech.

Reported: 06/29/2006 at 14:21 PO Box 744

Discard: 07/30/2006 West Chester PA 19381

B157-

| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 06/14/2006 19:38 | Lauren C Marzario | 1 |
|-------|----------------------|-----------------------|---|------------------|---------------------|---|
| 01103 | | | _ | , , | | |
| 06050 | ICP/MS SW-846 Water | SW-846 3010A modified | 1 | 06/20/2006 01:15 | Helen L Schaeffer | 1 |
| 07786 | EDB Extraction | SW-846 8011 | 1 | 06/13/2006 13:00 | Deborah M Zimmerman | 1 |
| 07807 | BNA Water Extraction | SW-846 3510C | 1 | 06/14/2006 08:00 | Joseph S Feister | 1 |

^{*=}This limit was used in the evaluation of the final result



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Quality Control Summary

Client Name: SUN: Aquaterra Tech. Group Number: 992976

Reported: 06/29/06 at 02:22 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

| Analysis Name | Blank <u>Result</u> | Blank LOQ** | Blank <u>MDL</u> | Report <u>Units</u> | LCS %REC | LCSD %REC | LCS/LCSD <u>Limits</u> | RPD | RPD Max |
|---|---|---|--|--|--|---|--|----------------------------|--|
| Batch number: 061630032A Ethylene dibromide | Sample numi | ber(s): 4 0.030 | 1790619-479 0.010 | 0629 ug/l | 100 | 96 | 60-140 | 4 | 20 |
| Batch number: 061630033A Ethylene dibromide | <pre>Sample num < 0.030</pre> | ber(s): 4 0.030 | 1790630-479 0.010 | 0638 ug/l | 100 | 100 | 60-140 | 0 | 20 |
| Batch number: 06163WAG026 Naphthalene Fluorene Phenanthrene Pyrene Chrysene | <pre>Sample num < 5. < 5. < 5. < 5. < 5. < 5.</pre> | ber(s): 4 5. 5. 5. 5. 5. | 1790619-479 1. 1. 1. 1. | 0623 ug/1 ug/1 ug/1 ug/1 ug/1 | 85 98 92 90 88 | 90 97 91 95 92 | 70-104 61-116 68-111 68-114 70-111 | 5 1 1 5 5 | 30 30 30 30 30 |
| Batch number: 06164WAF026 Naphthalene Fluorene Phenanthrene Pyrene Chrysene | Sample num < 5. < 5. < 5. < 5. < 5. | ber(s): 4 5. 5. 5. 5. 5. | 1790624-479 1. 1. 1. 1. | 0638 ug/1 ug/1 ug/1 ug/1 ug/1 | 85 88 92 104 91 | 84 90 92 105 93 | 70-104 61-116 68-111 68-114 70-111 | 0 1 0 1 2 | 30 30 30 30 30 |
| Batch number: 061696050001A Lead | Sample numi | ber(s): 4 0.0010 | 1790619-479 0.00004 7 | 0635 mg/l | 99 | | 86-115 | | |
| Batch number: 061716050002A Lead | <pre>Sample numl < 0.0010</pre> | ber(s): 4 0.0010 | 1790636-479 0.00004 7 | 0638 mg/l | 102 | | 86-115 | | |
| Batch number: N061651AA Methyl Tertiary Butyl Ether Benzene 1,2-Dichloroethane Toluene Ethylbenzene Isopropylbenzene Xylene (Total) | Sample num < 5. < 5. < 5. < 5. < 5. < 5. < 5. | ber(s): 4 5. 5. 5. 5. 5. 5. | 1790619-479 0.5 0.5 1. 0.7 0.8 1. | 0626 ug/l ug/l ug/l ug/l ug/l ug/l ug/l | 93 92 91 91 92 94 | | 73-119 85-117 77-132 85-115 82-119 80-120 83-113 | | |
| Batch number: N061671AB Methyl Tertiary Butyl Ether Benzene 1,2-Dichloroethane Toluene Ethylbenzene Isopropylbenzene Xylene (Total) Batch number: T061651AA | < 5. < 5. < 5. < 5. < 5. < 5. | 5. 5. 5. 5. 5. | 1790627-479 0.5 0.5 1. 0.7 0.8 1. 0.8 | ug/1 ug/1 ug/1 ug/1 ug/1 ug/1 | 113 102 126 97 99 102 96 | 115 103 124 98 102 104 99 | 73-119 85-117 77-132 85-115 82-119 80-120 83-113 | 1 1 2 3 2 3 | 30 30 30 30 30 30 30 30 |

- **-This limit was used in the evaluation of the final result for the blank
- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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Page 2 of 6

Quality Control Summary

Client Name: SUN: Aquaterra Tech. Group Number: 992976

Reported: 06/29/06 at 02:22 PM

Laboratory Compliance Quality Control

| | Blank | Blank | Blank | Report | LCS | LCSD | LCS/LCSD | | |
|-----------------------------|-----------|------------|------------|--------------|------|------|---------------|-----|---------|
| <u>Analysis Name</u> | Result | LOQ * * | MDL | <u>Units</u> | %REC | %REC | <u>Limits</u> | RPD | RPD Max |
| Methyl Tertiary Butyl Ether | < 5. | 5. | 0.5 | ug/l | 97 | 98 | 73-119 | 1 | 30 |
| Benzene | < 5. | 5. | 0.5 | ug/l | 108 | 104 | 85-117 | 4 | 30 |
| 1,2-Dichloroethane | < 5. | 5. | 1. | ug/l | 107 | 107 | 77-132 | 0 | 30 |
| Toluene | < 5. | 5. | 0.7 | ug/l | 97 | 96 | 85-115 | 0 | 30 |
| Ethylbenzene | < 5. | 5. | 0.8 | ug/l | 91 | 90 | 82-119 | 1 | 30 |
| Isopropylbenzene | < 5. | 5. | 1. | ug/l | 93 | 94 | 80-120 | 1 | 30 |
| Xylene (Total) | < 5. | 5. | 0.8 | ug/l | 95 | 94 | 83-113 | 1 | 30 |
| Batch number: T061652AA | Sample nu | mber(s): 4 | 790636-475 | 90638 | | | | | |
| Methyl Tertiary Butyl Ether | < 5. | 5. | 0.5 | ug/l | 98 | 97 | 73-119 | 0 | 30 |
| Benzene | < 5. | 5. | 0.5 | ug/l | 103 | 101 | 85-117 | 2 | 30 |
| 1,2-Dichloroethane | < 5. | 5. | 1. | ug/l | 107 | 104 | 77-132 | 3 | 30 |
| Toluene | < 5. | 5. | 0.7 | ug/l | 96 | 95 | 85-115 | 1 | 30 |
| Ethylbenzene | < 5. | 5. | 0.8 | ug/l | 91 | 91 | 82-119 | 0 | 30 |
| Isopropylbenzene | < 5. | 5. | 1. | ug/l | 96 | 95 | 80-120 | 1 | 30 |
| Xylene (Total) | < 5. | 5. | 0.8 | ug/l | 94 | 94 | 83-113 | 1 | 30 |

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

| | MS | MSD | MS/MSD | | RPD | BKG | DUP | DUP | Dup RPD |
|---|---|--|---|---------------------------------------|---|------------------------|--------------------------|---------------|------------|
| Analysis Name | %REC | %REC | <u>Limits</u> | RPD | <u>MAX</u> | Conc | Conc | RPD | Max |
| Batch number: 061630032A Ethylene dibromide | Sample 87 | number | (s): 479061 65-135 | 9-47906 | 29 UNSP | K: P790442 < 0.029 | BKG: P790443 < 0.029 | 0 (1) | 30 |
| Batch number: 061630033A Ethylene dibromide | Sample 70 | number | (s): 479063 65-135 | 0-47906 | 38 UNSP | K: 4790630 < 0.029 | BKG: 4790633 < 0.029 | 0 (1) | 30 |
| Batch number: 061696050001A Lead | Sample 97 | number 99 | (s): 479061 78-120 | 9-47906 2 | 35 UNSP 20 | K: 4790619 < 0.0010 | BKG: 4790619 < 0.0010 |) 200* (1) | 20 |
| Batch number: 061716050002A Lead | Sample 120 | number 100 | (s): 479063 78-120 | 6-47906 18 | 38 UNSP 20 | K: 4790636 < 0.0010 | BKG: 4790636 < 0.0010 | 10 (1) | 20 |
| Batch number: N061651AA Methyl Tertiary Butyl Ether Benzene 1,2-Dichloroethane Toluene Ethylbenzene Isopropylbenzene Xylene (Total) | Sample 95 98 94 96 97 100 96 | number 100 104 99 102 102 106 102 | (s): 479061 69-127 83-128 70-143 83-127 82-129 81-130 82-130 | 9-47906 5 6 6 6 5 6 | 26 UNSP 30 30 30 30 30 30 30 30 | K: P791171 | | | |
| Batch number: N061671AB Methyl Tertiary Butyl Ether Benzene 1,2-Dichloroethane Toluene Ethylbenzene Isopropylbenzene | Sample 115 109 128 102 106 108 | number | (s): 479062 69-127 83-128 70-143 83-127 82-129 81-130 | 7-47906 | 30 UNSP | K: P791697 | | | |

^{*-} Outside of specification

- **-This limit was used in the evaluation of the final result for the blank
- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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Quality Control Summary

Client Name: SUN: Aquaterra Tech. Group Number: 992976

Reported: 06/29/06 at 02:22 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

| | MS | MSD | MS/MSD | | RPD | BKG | DUP | DUP | Dup RPD |
|---|---|--------|--|---------|------------|-------------|------|------------|------------|
| <u>Analysis Name</u> Xylene (Total) | %REC 101 | %REC | <u>Limits</u> 82-130 | RPD | <u>MAX</u> | Conc | Conc | <u>RPD</u> | Max |
| Batch number: T061651AA Methyl Tertiary Butyl Ether Benzene 1,2-Dichloroethane Toluene Ethylbenzene Isopropylbenzene Xylene (Total) | | number | (s): 4790631 69-127 83-128 70-143 83-127 82-129 81-130 82-130 | -47906 | 35 UNSF | PK: P789401 | | | |
| Batch number: T061652AA Methyl Tertiary Butyl Ether Benzene 1,2-Dichloroethane Toluene Ethylbenzene Isopropylbenzene Xylene (Total) | Sample 98 100 113 104 101 115 | number | (s): 4790636 69-127 83-128 70-143 83-127 82-129 81-130 82-130 | 5-47906 | 38 UNSE | PK: 4790636 | | | |

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: EDB in Wastewater Batch number: 061630032A

1,1,2,2-

Tetrachloroethane

| 4790619 | 87 | | | |
|---------|--------|--|--|--|
| 4790620 | 68 | | | |
| 4790621 | 91 | | | |
| 4790622 | 91 | | | |
| 4790623 | 94 | | | |
| 4790624 | 97 | | | |
| 4790625 | 33* | | | |
| 4790626 | 104 | | | |
| 4790627 | 70 | | | |
| 4790628 | 64 | | | |
| 4790629 | 73 | | | |
| Blank | 113 | | | |
| DUP | 136* | | | |
| LCS | 109 | | | |
| LCSD | 113 | | | |
| MS | 95 | | | |
| Limits: | 52-120 | | | |

- **-This limit was used in the evaluation of the final result for the blank
- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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Page 4 of 6

Quality Control Summary

Client Name: SUN: Aquaterra Tech. Group Number: 992976

Reported: 06/29/06 at 02:22 PM

Surrogate Quality Control

Analysis Name: EDB in Wastewater

Batch number: 061630033A

1,1,2,2-Tetrachloroethane

| 4790630 | 87 |
|---------|------|
| 4790631 | 92 |
| 4790632 | 126* |
| 4790633 | 92 |
| 4790634 | 102 |
| 4790635 | 168* |
| 4790636 | 74 |
| 4790637 | 112 |
| 4790638 | 88 |
| Blank | 118 |
| DUP | 100 |
| LCS | 116 |
| LCSD | 120 |
| MS | 77 |

Limits: 52-120

Analysis Name: PAHs in Water by GC/MS

Batch number: 06163WAG026

| | Nitrobenzene-d5 | 2-Fluorobiphenyl | Terphenyl-d14 | |
|---------|-----------------|------------------|---------------|--|
| 4790619 | 85 | 89 | 94 | |
| 4790620 | 81 | 83 | 91 | |
| 4790621 | 85 | 90 | 95 | |
| 4790622 | 88 | 92 | 95 | |
| 4790623 | 85 | 85 | 83 | |
| Blank | 84 | 88 | 95 | |
| LCS | 83 | 92 | 94 | |
| LCSD | 86 | 92 | 101 | |
| Limits: | 51-123 | 64-112 | 52-151 | |

Analysis Name: PAHs in Water by GC/MS

Batch number: 06164WAF026

| | Nitrobenzene-d5 | 2-Fluorobiphenyl | Terphenyl-d14 | |
|---------|-----------------|------------------|---------------|--|
| 4790624 | 93 | 89 | 99 | |
| 4790625 | 97 | 91 | 100 | |
| 4790626 | 99 | 85 | 97 | |
| 4790627 | 98 | 92 | 100 | |
| 4790628 | 92 | 88 | 99 | |
| 4790629 | 95 | 90 | 97 | |
| 4790630 | 98 | 93 | 102 | |
| 4790631 | 99 | 84 | 103 | |
| 4790632 | 96 | 91 | 98 | |
| 4790633 | 91 | 77 | 97 | |
| 4790634 | 93 | 85 | 94 | |
| 4790635 | 95 | 91 | 98 | |
| 4790636 | 92 | 88 | 96 | |
| 4790637 | 97 | 88 | 96 | |
| 4790638 | 91 | 80 | 65 | |
| Blank | 98 | 89 | 102 | |
| LCS | 100 | 92 | 110 | |

- **-This limit was used in the evaluation of the final result for the blank
- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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Page 5 of 6

Quality Control Summary

Client Name: SUN: Aquaterra Tech. Reported: 06/29/06 at 02:22 PM Group Number: 992976

Surrogate Quality Control

| | | burrogate Q | darity control | |
|------------|---|-----------------------|----------------|----------------------|
| LCSD | 100 | 91 | 111 | |
| Limits: | 51-123 | 64-112 | 52-151 | |
| Analysis N | Jame: UST-Waters by 8260B | | | |
| | per: N061651AA | | | |
| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
| 4790619 | 96 | 98 | 97 | 96 |
| 4790620 | 97 | 97 | 97 | 98 |
| 4790621 | 96 | 97 | 96 | 97 |
| 4790622 | 96 | 98 | 97 | 96 |
| 4790623 | 96 | 98 | 96 | 96 |
| 4790624 | 95 | 97 | 97 | 99 |
| 4790625 | 96 | 97 | 98 | 99 |
| 4790626 | 93 | 94 | 97 | 96 |
| Blank | 96 | 98 | 96 | 95 |
| | | 99 | | 99 |
| LCS | 96 | | 98 | |
| MS | 97 | 98 | 98 | 100 |
| MSD | 97 | 98 | 97 | 99 |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 |
| Analysis N | Name: UST-Waters by 8260B | | | |
| Batch numb | er: N061671AB | | | |
| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
| 4790627 | 101 | 96 | 100 | 106 |
| 4790628 | 99 | 96 | 99 | 100 |
| 4790629 | 99 | 96 | 98 | 104 |
| 4790630 | 101 | 97 | 101 | 106 |
| Blank | 103 | 100 | 99 | 101 |
| LCS | 103 | 99 | 99 | 108 |
| LCSD | 102 | 95 | 101 | 109 |
| MS | 101 | 96 | 99 | 108 |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 |
| Analysis N | Name: UST-Waters by 8260B | | | |
| | er: T061651AA | | | |
| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
| 4790631 | 88 | 80 | 91 | 92 |
| 4790632 | 88 | 82 | 85 | 88 |
| 4790633 | 88 | 81 | 86 | 91 |
| 4790634 | 88 | 81 | 85 | 87 |
| 4790635 | 87 | 84 | 85 | 88 |
| Blank | 90 | 81 | 86 | 88 |
| LCS | 88 | 84 | 87 | 88 |
| LCSD | 87 | 83 | 86 | 88 |
| MS | 87 | 85 | 87 | 92 |
| MS | | 85 | 8 / | 92 |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 |
| | Jame: UST-Waters by 8260B Der: T061652AA | | | |
| Daten numb | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |

^{**-}This limit was used in the evaluation of the final result for the blank

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The background result was more than four times the spike added.



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Page 6 of 6

Quality Control Summary

| | Iame: SUN: Aqu l: 06/29/06 at | | Group Nu | mber: 992976 | |
|---------|----------------------------------|--------|-----------------------|--------------|---|
| перогее | i. 00/25/00 ac | | rrogate Quality Contr | ol | |
| 4790636 | 87 | 84 | 87 | 90 | |
| 4790637 | 87 | 82 | 87 | 89 | |
| 4790638 | 87 | 81 | 86 | 90 | |
| Blank | 89 | 83 | 85 | 88 | |
| LCS | 89 | 83 | 86 | 90 | |
| LCSD | 87 | 84 | 86 | 88 | |
| MS | 88 | 85 | 89 | 92 | |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 | - |

^{*-} Outside of specification

^{**-}This limit was used in the evaluation of the final result for the blank

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The background result was more than four times the spike added.

Analysis Request/ Environmental Services Chain of Custody

Laboratories

For Lancaster Laboratories use only Acct. # 10186 # 0124056

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Analysis Request/ Ervironmental Services Chain of Custody

Lancaster Laboratories

Acct. # 10132_ Group# 992976-Sample # 4790619-39 COC # 0124052

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Analysis Request/ Environmental Services Chain of Custody

Laboratories

For Lancaster Laboratories use only Acct. # 1018 COC # 0124047

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Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

| N.D. | none detected | BMQL | Below Minimum Quantitation Level |
|----------|-----------------------|--------------|--|
| TNTC | Too Numerous To Count | MPN | Most Probable Number |
| IU | International Units | CP Units | cobalt-chloroplatinate units |
| umhos/cm | micromhos/cm | NTU | nephelometric turbidity units |
| С | degrees Celsius | F | degrees Fahrenheit |
| Cal | (diet) calories | lb. | pound(s) |
| meq | milliequivalents | kg | kilogram(s) |
| g | gram(s) | mg | milligram(s) |
| ug | microgram(s) | I | liter(s) |
| ml | milliliter(s) | ul | microliter(s) |
| m3 | cubic meter(s) | fib >5 um/ml | fibers greater than 5 microns in length per ml |

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

Inorganic Qualifiers

- ppb parts per billion
- **Dry weight**Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

| lifier | (uu | 9 | u | ٠, ۶ | • |
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| A B C D E | TIC is a possible aldol-condensation product Analyte was also detected in the blank Pesticide result confirmed by GC/MS Compound quatitated on a diluted sample Concentration exceeds the calibration range of the instrument | B E M N S | Value is <crdl, (msa)="" additions="" amount="" but="" calculation<="" control="" due="" duplicate="" estimated="" for="" injection="" interference="" limits="" met="" method="" not="" of="" precision="" spike="" standard="" th="" to="" used="" within="" ≥idl=""></crdl,> |
|-----------------------|--|-----------------------|---|
| J | Estimated value | U | Compound was not detected |
| N | Presumptive evidence of a compound (TICs only) | W | Post digestion spike out of control limits |
| Р | Concentration difference between primary and | * | Duplicate analysis not within control limits |
| | confirmation columns >25% | + | Correlation coefficient for MSA < 0.995 |
| U | Compound was not detected | | |
| X,Y,Z | Defined in case narrative | | |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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